Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A system for detecting milk surge data related to a human mother's breast, and then using that detected surge data for therapeutic, diagnostic or modified milk expression techniques for a mother, the system having a breast pump with a breast shield for expressing milk from the breast, said breast shield being sized and shaped to accommodate the mother's breast, at least one collecting container, for receiving the milk expressed, the breast shield being connected to the collecting container via a connecting tube, wherein the mother can move around during the expression without affecting the accurate detection of surge data, and a unit by means of which a quantity of milk received in the at least one collecting container is determined as a function of time wherein the unit comprises a balance for weighing the milk, whereby a milk surge is detected and milk surge data is generated from the behavior of the flow of milk over time, and that surge data is then used to subsequently effect one or more of a subsequent therapeutic, diagnostic or modified milk expression technique of the mother.

2. (currently amended) The system as claimed in claim 1, wherein the unit further comprises ~~has a measuring means, for measuring the quantity of milk located in the at least one collecting container, and~~ an evaluating means by means of which the quantity of milk measured is evaluated as a function of time.

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3. (canceled)

4. (currently amended) The system as claimed in claim 1 ~~3~~, wherein the balance is an electromechanical balance with a bearing surface for the at least one collecting container.

5. (original) The system as claimed in claim 2, wherein the evaluating means is a computing system, in particular a computer.

6. (original) The system as claimed in claim 1, wherein the at least one collecting container is connected to the breast shield via a connecting tube.

7. (original) The system as claimed in claim 1, wherein the system comprises several collecting containers being connected with said unit for determining the quantity of milk.

8. (currently amended) The system as claimed in claim 1 ~~3~~, wherein said at least one collecting container is arranged on said balance.

9. (original) The system as claimed in claim 7 and claim 6, wherein the system comprises moving means for moving said connecting tube from one of said collecting containers to another of said collecting containers.

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10. (currently amended) A process for detecting milk surge data related to a human mother's breast, and then using that detected surge data for therapeutic, diagnostic or modified milk expression techniques for a mother, milk being expressed from the breast into at least one collecting container, and the weight of the ~~quantity of~~ milk expressed being determined as a function of time, and whereby a milk surge is detected and milk surge data is generated from the behavior of the flow of milk over time, and that surge data is then used to subsequently effect one or more of a subsequent therapeutic, diagnostic or modified milk expression technique of the mother.

11. (canceled)

12. (original) The process as claimed in claim 10, wherein the change in weight of the quantity of milk expressed is determined as a function of time.

13. (original) The process as claimed in claim 10, wherein, in order to express the milk, use is made of a breast pump with a breast shield, and wherein the milk expressed is directed from the breast shield into the at least one collecting container via a connecting tube.

14. (original) The process as claimed in claim 10, wherein the milk is collected in several collecting containers, wherein the collecting containers are filled one after the other dependent on a predetermined event.

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15. (original) The process as claimed in claim 14, wherein the predetermined event is the arrival of a set time point.

16. (currently amended) Use of a breast pump for detecting milk surge related data in a human mother's breast, and then using that detected surge data for therapeutic, diagnostic or modified milk expression techniques for a mother, milk being expressed from the breast into at least one collecting container by means of the breast pump, and the weight of the ~~quantity of~~ milk expressed being determined as a function of time, and whereby a milk surge is detected and milk surge data is generated from the behavior of the flow of milk over time, and that surge data is then used to subsequently effect one or more of a subsequent therapeutic, diagnostic or modified milk expression technique of the mother.

17. (previously presented) The system as claimed in claim 2, where said evaluating means evaluate measurement curves in order to detect milk surge.

18. (previously presented) The system as claimed in claim 17, wherein said evaluation means evaluate a derivative of said measurement curves in order to detect the milk surge.

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